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CalESCO

CALIFORNIA EARTH SCIENCE CORPORATION

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May 5, 1975

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Contract NAS 2-7698
MONTHLY PROGRESS REPORT NO. 23
April 1975

Fault Tectonics and Earthquake Hazards in the Peninsular Ranges,
Southern California, EREP Investigation 463

NASA-Lyndon B. Johnson Space Center
Technical Support Procurement Branch
Houston, Texas 77058

Attention: Mrs. Ruth Elder, Mail Stop BB631 (B9)

Dear Mrs. Elder:

California Earth Science Corporation (CalESCO) is pleased to submit its 23rd
Monthly Progress Report on the application of Skylab imagery to analysis of
fault tectonics and earthquake hazards in the Peninsular Ranges, Southern
California under NASA Contract No. NAS 2-7698.

Summary Outlook

The principal plans for the immediate future are to continue analysis of images
from SL1/SL2, SL3, and SL4.

Significant Progress

1. Images of SL2 EREP Pass 2 S192 channels were generated. Six channels
are usable.
2. The summary of a paper describing our analysis of pseudocolor trans-
formations was submitted to the 10th Symposium on Remote Sensing of
Environment.
3. Dr. David Amsbury visited with us in early April. One day was spent in
the field examining faults in the Peninsular Ranges discovered during
this investigation. A portion of a second day was spent at the JPL Image
Processing Laboratory and in our office discussing results and problems
connected with the study.

(E75-10284) FAULT TECTONICS AND EARTHQUAKE
HAZARDS IN THE PENINSULAR RANGES, SOUTHERN
CALIFORNIA Monthly Progress Report, Apr.
1975 (California Earth Science Corp., Santa
Monica.) 2 p HC \$3.25

N75-24057

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CSCL 08G G3/43

May 5, 1975

4. Analysis of SL4 photos of the Mojave Desert were continued. An overflight was made along several active faults. A number of topographic indicators of recent faulting are identifiable in Skylab photos, particularly 190B photos.
5. A test was performed involving a number of RAND employees to determine if pseudocolor transformations improve the ability to read gray-scale charts. Results of the test are being evaluated.

Expected Accomplishments, Current Month

1. Most of May will be spent preparing the paper, "Active and Inactive Faults of Southern California Viewed from Skylab" for submission to the Earth Resources Symposium.
2. Subtractions and combinations of SL92 images of the western Mojave Desert will be prepared.

Travel Summary and Plans

Two days will be spent in the field in western San Diego County.

Very truly yours,

CALIFORNIA EARTH SCIENCE CORP.

Paul M. Merifield
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Principal Investigator

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